

(12) **United States Patent**  
**Riley et al.**

(10) **Patent No.:** **US 9,636,566 B2**  
(45) **Date of Patent:** **May 2, 2017**

(54) **ATHLETIC PERFORMANCE SENSING  
AND/OR TRACKING SYSTEMS AND  
METHODS**

(71) Applicant: **NIKE, Inc.**, Beaverton, OR (US)

(72) Inventors: **Raymond W. Riley**, Bainbridge Island,  
WA (US); **Kevin W. Hoffer**, Beaverton,  
OR (US); **William E. Berner**, Portland,  
OR (US); **Allan M. Schrock**, Portland,  
OR (US); **James A. Niegowski**,  
Portland, OR (US); **William F.  
Rauchholz**, Portland, OR (US)

(73) Assignee: **NIKE, Inc.**, Beaverton, OR (US)

(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 0 days.

(21) Appl. No.: **14/724,468**

(22) Filed: **May 28, 2015**

(65) **Prior Publication Data**

US 2015/0258378 A1 Sep. 17, 2015

**Related U.S. Application Data**

(60) Continuation of application No. 14/027,616, filed on  
Sep. 16, 2013, which is a division of application No.  
(Continued)

(51) **Int. Cl.**

**A63B 71/06** (2006.01)

**G06F 3/16** (2006.01)

(Continued)

(52) **U.S. Cl.**

CPC ..... **A63B 71/06** (2013.01); **A63B 24/0006**  
(2013.01); **A63B 24/0062** (2013.01);

(Continued)

(58) **Field of Classification Search**

CPC ..... **A63B 71/0622**; **A63B 71/0686**; **A63B**  
**2071/0625**; **A63B 2071/063**; **A63B**  
**24/0075**

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,410,472 A 4/1995 Anderson  
5,456,648 A 10/1995 Edinburg et al.  
(Continued)

**FOREIGN PATENT DOCUMENTS**

CN 1322935 A 11/2001  
CN 1621110 A 6/2005  
(Continued)

**OTHER PUBLICATIONS**

Feb. 1, 2008—(WO) Partial Search Report—App. No. PCT/  
US2007/019384.

*Primary Examiner* — Sundhara Ganesan

(74) *Attorney, Agent, or Firm* — Banner & Witcoff, Ltd.

(57) **ABSTRACT**

Athletic performance sensing and/or tracking systems include components for measuring or sensing athletic performance data and/or for storing and/or displaying desired information associated with the athletic performance to the user (or others). Such systems can allow users a wide variety of options in creating workouts, selecting and presenting media content during the athletic performance, etc., e.g., to help keep users entertained and motivated. In some instances, user feedback may be used, optionally in combination with objective data relating to a workout, to control features of the workout routine, to control the music or other media content selected and/or presented, and/or to control features of future workout routines and/or the presented media content.

**20 Claims, 19 Drawing Sheets**

